B.B.M.P

BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: Estimate for Maintenance of Water Supply Existing Borewells in Ward No. 09 (Amruthahalli).

Estimated Cost Rs. 20.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

WARD NO. 09, AMRUTHAHALLI

DEATILED ESTIMATE

Name of the work: Maintenance of Water Supply Existing Borewells in Ward No. 09 (Amruthahalli).

							Est Cost:	2000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	A) Rewinding								
1	The lifting of submergible pumpset from well **(P. 3.20 / I. 157) BWSSB SR (2021-22)**	Each	25				**25**	1054.00	**26350.00**
2	Transportation of pumping machineries **(P. 157 / I. 3.18) BWSSB SR (2021-22)**	Each	25				**25**	843.00	**21075.00**
3	The Labour charges only for overhauling **(P. 157 / I. 3.21) BWSSB SR (2021-22)**	Each	25				**25**	1792.00	**44800.00**
	A) Repairs to Motor: Rewinding of submergible pumpset with copper winding wires of appropriate guage, as per specifications and / or directions of the departmental officials, including all materials, labour, equipment and testing. for all types of submergible pumpsets etc.(with guarantee period not less than 6 months) for **P No. 156 / I. No. 1.13) (BWSSB SR 2021-22)**								
4	For all types of submergible pumpsets above 10 H.P and upto 11 H.P.	Each	10				**10**	5157.00	**51570.00**
5	For all types of submergible pumpsets above 11 H.P and upto 12 H.P	Each	15				**15**	5570.00	**83550.00**
	B) Replacement of Motor Parts:								
6	The STATOR of motor 4 to 5 H.P **P No. 157 / I No. 3.2 BWSSB SR (2021-22)**	Each	25				**25**	5588.00	**139700.00**
7	The STATOR of motor 4 to 5 H.P **P No. 157 / I No. 3.6 BWSSB SR (2020-21)**	Each	25				**25**	4850.00	**121250.00**
8	The upper flange **(P No. 157 / I No. 3.7 BWSSB SR (2021-22)**	Each	25				**25**	369.00	**9225.00**
9	The lower flange **(P No. 157 / I No. 3.8 BWSSB SR (2021-22)**	Each	25				**25**	422.00	**10550.00**
10	Upper / lower housing **(P No. 157 / I No. 3.9 BWSSB SR (2021-22)**	Each	25				**25**	633.00	**15825.00**
11	**Carbon housing** Thrust bearing block assembly complete with segment bearing pad & tip carbon/Ferradopadding pad. **P. No. 157 / I No. 3.12 BWSSB SR (2021-22)**	Each	25				**25**	949.00	**23725.00**
	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.								
12	The Oil Seal. **P. No. 156 / I No. 2.3 BWSSB SR (2021-22)**	Each	25				**25**	169.00	**4225.00**
13	The Oil Seal.and steel bush **P. No. 156 / I No. 2.4 BWSSB SR (2021-22)**	Each	25				**25**	169.00	**4225.00**
14	The Guide Vane **P. No. 156 / I No. 2.5 RWS SR (2021-22)**	Each	650				**650**	380.00	**247000.00**
15	The Impeller (Shell moulded with aluminium and bronze.) **P. No. 156 / I No. 2.6 BWSSB SR (2021-22)**	Each	650				**650**	580.00	**377000.00**
16	The discharge outlet (DO) bearing DO steel bush DO bearing **P. No. 156 / I No.2.7 BWSSB SR (2020-21)**	Each	25				**25**	685.00	**17125.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	The steel bearing bush (DO steel bush) **P. No. 156 / I No. 2.8 BWSSB SR (2021-22)**	Each	25				**25**	211.00	**5275.00**
18	The pump shaft made out of stainless steel counterless ground with key way (upto 8 stages). Extra for each stage @ Rs.40/-. **P. No. 157 / I No. 2.10 BWSSB SR (2021-22)**	Each	25				**25**	1213.00	**30325.00**
19	The Non Return Valve (NRV) assembly complete with rubber 'O' ring. **P. No. 157 / I No. 2.13 BWSSB SR (2021-22)**	Each	25				**25**	580.00	**14500.00**
20	The cable guard **P. No. 157 / I No. 2.14 BWSSB SR (2021-22)**	Each	25				**25**	865.00	**21625.00**
21	The brass filter **P. No. 157 / I No. 2.16 BWSSB SR (2021-22)**	Each	25				**25**	474.00	**11850.00**
22	The Re-errection charges of pumping machineries including overhauling and painting **P. No. 157 / I No. 3.19 BWSSB SR (2021-22)**	Each	25				**25**	1711.00	**42775.00**
	Additional Parts								
23	Submersible Cable 1x3x6.0 Sq.mm **(PWD SR 2018-19 Page No. XLVII Sl No. 8)**	M							
			2	300.00			**600**	144.00	**86400.00**
24	Providing, Supplying and fixing suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete with terminals, clamps, bolts, nuts and washers etc. with necessary materials and labour tools and equipments as per instructions of engineer incharge of work.**3½x6 Sqm ,(P. 164, I No. 44.1) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Mtr							
			2	60.00			**120.00**	515.00	**61800.00**
25	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 41 / I. No. 6.6.1 KPWD Electrical SR 2019-20**	Mtr							
	For Cutting Road Surface		2	60.00			**120.00**	76.00	**9120.00**
26	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. **P. No. 41 / I No. 6.9.1 KPWD Electrical SR 2019-20**	Mtr							
	40mm dia GI pipe		3	4.00			**12.00**	335.00	**4020.00**
27	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. **P. No. 42 / I.No. 7.10.2 KPWD Electrical SR 2019-20**	No.							
	16Sqmm		5				**5.00**	270.00	**1350.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
28	Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia **(P. 164, I No. 45) WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Job							
			3				**3**	3750.00	**11250.00**
29	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 24 / I No. 5.7.2 KPWD Electrical SR 2019-20**	No.							
	32 Amps		10x6				**60**	174.00	**10440.00**
30	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **6-32Amps TPN P No. 27 / I No.5.17.7 KPWD SR 2019-20**	No							
			10				**10**	1715.00	**17150.00**
31	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 30, I. No. 5.42.2 KPWD Electrical SR 2019-20**	Sq.Cm							
	16SWG		2x2	120.00	60.00		28800.00		
			2	360.00	25.00		18000.00		
							46800.00	0.35	**16380.00**
32	Earth work excavation for pipeline trenches in all kinds of soils by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & boning rods at every 100 mm whevere necessary as directed, removal of stumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work etc., and all other appurtenances complete in the following strata. **All kinds of soils. Depth upto 1.50 m (P. 10, I 1.17.1) pwd sr 2021-22 Vol - I**	Cum							
			1	250.00	0.45	0.45	50.63		
	Charges Basic Rate	194.00					**50.63**	213.40	**10803.00**
	Area Weightage @ 10%	19.40							
	Total	**213.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
33	Providing and installing at site of work P.V.C. pipes including cost of pipes and specials and labo[illegible] including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour charges and all lift charges, handling charges including encasing the pipe around to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete., 75mm(weight of pipe -0.917 kg **P .139, I No. 13.1 WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	250.00			250.00		
							250.00	210.00	**52500.00**
	Charges Basic Rate	210.00							
34	Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete **Item No. 1.11 Page No. 7, PWD SR 2021-2 Vol-I**	cum							
			1	250.00	0.45	0.25	28.13		
	Charges Basic Rate	2177.00					**28.13**	2394.70	**67351.00**
	Area Weightage @ 10%	217.70							
	Total	**2394.70**							
35	Refilling available earth around trenches / pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications **Item No. 1.10 Page No. 7, PWD SR 2021-22 Vol-I**	Cum							
			Qty. Vide Item No. 32-34				**22.50**	103.00	**2318.00**
	Baisc Rate	103.00							
36	Supply and delivery at site of brand new best make gate valve as per IS 778/1984 with ISI Mark and as per its latest amendment Size 65 mm **P .162, I No. 27.2, WATER SUPPLY AND UGD WORKS COMMON SCHEDULE OF RATES 2021-22 Volume - V**	Each							
			13				13	1550.00	**20150.00**
	Sub Total A								**1694577.00**
	GST @ 18%								**305024.00**
	Miscellaneous and Unforeseen Charges	L/S							**399.00**
								Total	**2000000.00**
	Rupees Twenty Lakh(s) Only								

TECHNICAL SANCTION
Accorded For Rs. 20.00 Lakhs only
Head of A/c. P3726
Dis. Ref. No. 36/22-23 Date 16/09/22
AE EE(BTP)

Administrative Approval
Accorded For 20.00 Lakhs only
Head of A/C P3726
CER NO : 101 Dt: 16/09/2022
TA CE (WK)

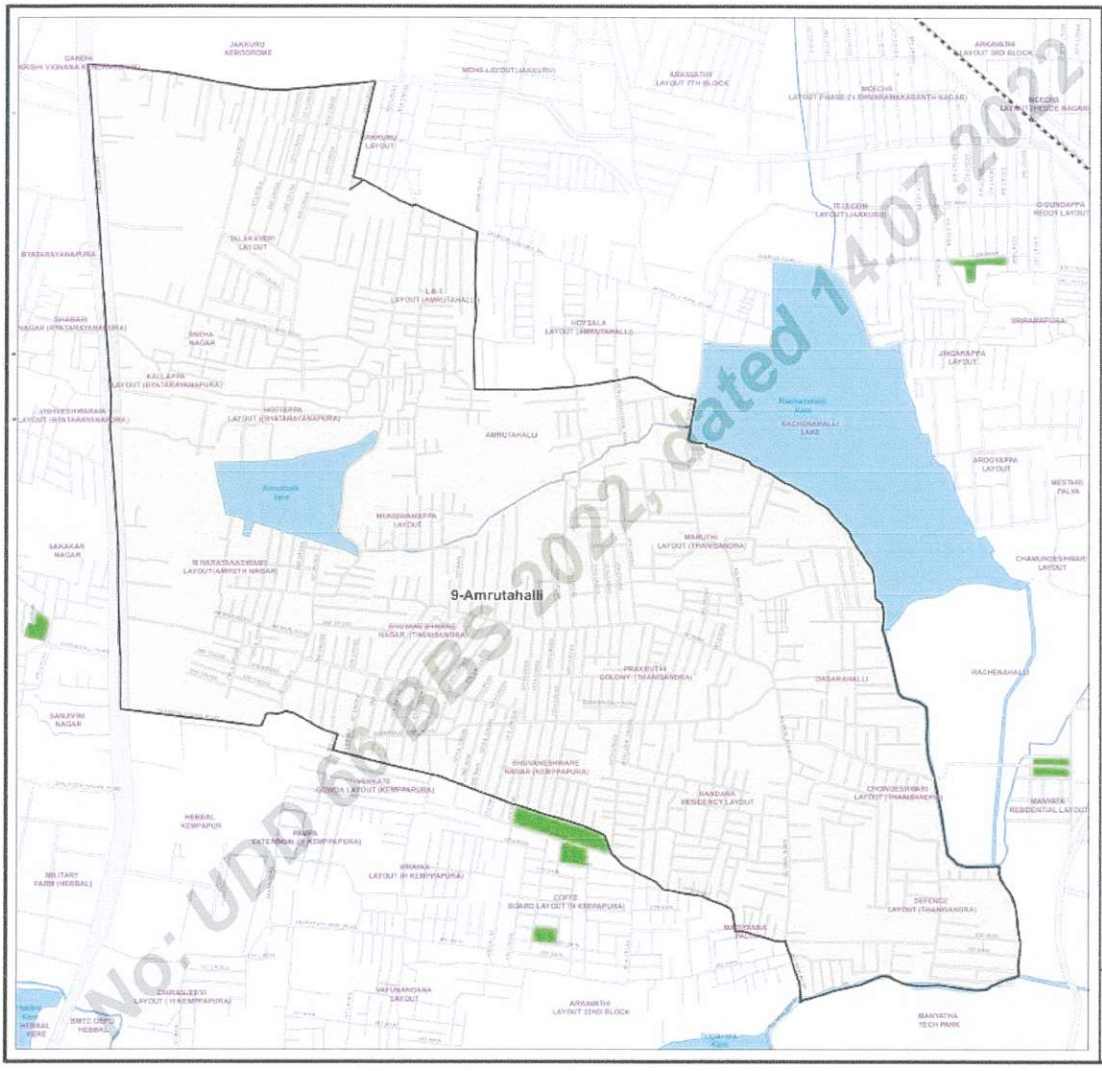
CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR 2021-22,PWD Elecrical 2019-20, BWSSB SR 2021-22.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bengaluru

Executive Engineer
Byatarayanapura Division
BBMP, Bengaluru



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Delimitation of Wards in BBMP - 2022

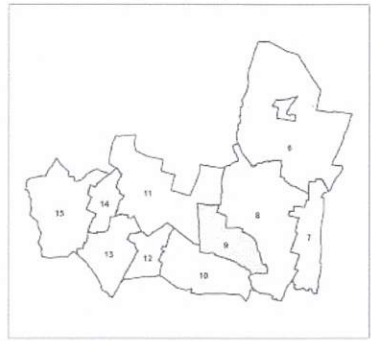
Delimited Ward Name

9-Amrutahalli

Legend

- Delimited Ward Boundary
- Delimited Ward Area
- Road
- Railwayline
- Park
- Tank/ Pond/ Storm Water Drain

152-Byatarayanapura AC



Government of Karnataka Notification
No: UDD 66 BBS 2022, Bengaluru, dated 14-07-2022

Urban Development Department
Government of Karnataka